

Supplementary file 9: cNMA model comparisons for serious adverse events outcome

[Return to index](#)

Group	Component	Network Meta-Analysis (NMA) Excludes studies combining interventions			Component Network Meta-Analysis (CNMA) Includes studies combining more than one intervention						Component Network Meta-Regression (CNMR) Includes studies combining more than one intervention		
		Analysis of intervention types only	Analysis of selected combinations of type and delivery modes	Analysis of selected combinations of type and delivery modes (main model)	Analysis of selected combinations of type and delivery modes (excluding high risk of bias)	Analysis of selected combinations of type and delivery modes (excluding arms with DIC ≥3)	Analysis of selected combinations of type, delivery, and dose	Analysis of selected combinations of type, delivery, and tapering	Analysis of selected combinations of type, delivery, and timing	Selected based on pre-existing condition (yes vs no)	Control arm SAE rate	Funding of (the study vs no funding or intervention only)	
		(n studies: 74, n arms: 162, n patients: 49 714)	(n studies: 74, n arms: 162, n patients: 48 632)	(n studies: 85, n arms: 193, n patients: 56 178)	(n studies: 65, n arms: 148, n patients: 42 721)	(n studies: 84, n arms: 191, n patients: 56 132)	(n studies: 87, n arms: 199, n patients: 56 742)	(n studies: 86, n arms: 195, n patients: 56 238)	(n studies: 87, n arms: 199, n patients: 57 657)	(n studies: 85, n arms: 193, n patients: 56 178)	(n studies: 85, n arms: 193, n patients: 56 178)	(n studies: 82, n arms: 187, n patients: 54 141)	
Control	No intervention/Placebo	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)	1.00 (Reference)
Type	Nicotine	1.00 (0.77 to 1.28)	-	-	-	-	-	-	-	-	-	-	-
Type x delivery	Nicotine patch	-	1.09 (0.77 to 1.54)	0.96 (0.71 to 1.29)	1.10 (0.74 to 1.60)	0.96 (0.71 to 1.29)	-	-	-	-	0.99 (0.72 to 1.36)	1.17 (0.86 to 1.58)	0.92 (0.67 to 1.25)
Type x delivery x dose	Nicotine patch Standard	-	-	-	-	-	1.03 (0.73 to 1.44)	-	-	-	-	-	-
Type x delivery x dose	Nicotine patch Higher	-	-	-	-	-	2.31 (0.61 to 10.11)	-	-	-	-	-	-
Type x delivery x dose	Nicotine patch Lower	-	-	-	-	-	0.34 (0.04 to 2.19)	-	-	-	-	-	-
Type x delivery x dose	Nicotine patch Mixed	-	-	-	-	-	0.67 (0.25 to 1.74)	-	-	-	-	-	-
Type x delivery x dose	Nicotine patch Missing	-	-	-	-	-	1.43 (0.58 to 3.76)	-	-	-	-	-	-
Type x delivery x tapering	Nicotine patch Tapering	-	-	-	-	-	-	1.17 (0.82 to 1.64)	-	-	-	-	-
Type x delivery x tapering	Nicotine patch No Taperin	-	-	-	-	-	-	0.69 (0.40 to 1.19)	-	-	-	-	-
Type x delivery x timing	Nicotine patch Pre quit	-	-	-	-	-	-	-	0.74 (0.41 to 1.34)	-	-	-	-
Type x delivery x timing	Nicotine patch No pre quit	-	-	-	-	-	-	-	1.05 (0.75 to 1.47)	-	-	-	-
Type x delivery	Nicotine EC	-	0.82 (0.49 to 1.37)	0.79 (0.50 to 1.23)	1.03 (0.55 to 1.92)	0.79 (0.50 to 1.24)	0.85 (0.52 to 1.37)	0.73 (0.47 to 1.14)	0.75 (0.47 to 1.17)	0.81 (0.51 to 1.28)	0.88 (0.57 to 1.36)	0.77 (0.49 to 1.21)	
Type x delivery	Nicotine	-	1.16 (0.73 to 1.88)	#N/A	1.27 (0.80 to 2.03)	1.07 (0.75 to 1.55)	-	-	-	1.08 (0.77 to 1.56)	1.33 (0.93 to 2.05)	1.00 (0.69 to 1.44)	
Type x delivery x dose	Nicotine other Standard	-	-	-	-	-	1.23 (0.64 to 2.43)	-	-	-	-	-	-
Type x delivery x dose	Nicotine other Higher	-	-	-	-	-	1.34 (0.19 to 12.18)	-	-	-	-	-	-
Type x delivery x dose	Nicotine other Lower	-	-	-	-	-	0.79 (0.34 to 1.85)	-	-	-	-	-	-
Type x delivery x dose	Nicotine other Mixed	-	-	-	-	-	1.29 (0.61 to 2.78)	-	-	-	-	-	-
Type x delivery x dose	Nicotine other Missing	-	-	-	-	-	1.53 (0.67 to 3.54)	-	-	-	-	-	-
Type x delivery x tapering	Nicotine other Tapering	-	-	-	-	-	-	1.45 (0.79 to 2.72)	-	-	-	-	-
Type x delivery x tapering	Nicotine other No Taperin	-	-	-	-	-	-	0.94 (0.61 to 1.45)	-	-	-	-	-
Type x delivery x timing	Nicotine other Pre quit	-	-	-	-	-	-	-	1.55 (0.69 to 3.60)	-	-	-	-
Type x delivery x timing	Nicotine other No pre quit	-	-	-	-	-	-	-	0.99 (0.67 to 1.44)	-	-	-	-
Type	Varenicline	1.17 (0.92 to 1.48)	1.17 (0.91 to 1.49)	1.18 (0.93 to 1.49)	1.21 (0.92 to 1.58)	1.18 (0.93 to 1.49)	1.18 (0.92 to 1.50)	1.20 (0.95 to 1.51)	1.18 (0.93 to 1.49)	1.24 (0.94 to 1.65)	1.67 (1.24 to 2.18)	1.02 (0.76 to 1.36)	
Type	Cytisine	0.93 (0.58 to 1.51)	0.94 (0.57 to 1.52)	0.94 (0.58 to 1.50)	0.92 (0.46 to 1.81)	0.94 (0.59 to 1.51)	0.94 (0.57 to 1.52)	0.94 (0.59 to 1.49)	0.94 (0.58 to 1.50)	0.99 (0.60 to 1.63)	1.28 (0.79 to 2.05)	0.88 (0.55 to 1.44)	
Type	Bupropion	1.32 (0.90 to 1.98)	1.34 (0.90 to 2.02)	1.35 (0.97 to 1.92)	1.37 (0.94 to 2.01)	1.36 (0.96 to 1.92)	1.37 (0.97 to 1.95)	1.39 (1.01 to 1.96)	1.38 (0.99 to 1.94)	1.27 (0.90 to 1.81)	1.44 (1.02 to 2.01)	1.10 (0.77 to 1.59)	
Moderator effect	B	-	-	-	-	-	-	-	-	0.881 (0.643 to 1.217)	0.826 (0.818 to 0.877)	1.241 (0.978 to 1.59)	
Moderator effect	B1	-	-	-	-	-	-	-	-	-	-	-	
Moderator effect	B2	-	-	-	-	-	-	-	-	-	-	-	
Bupropion	beta[2]	-	-	-	-	-	-	-	-	-	-	-	
Cytisine	beta[3]	-	-	-	-	-	-	-	-	-	-	-	
Nicotine patch	beta[4]	-	-	-	-	-	-	-	-	-	-	-	
Nicotine EC	beta[5]	-	-	-	-	-	-	-	-	-	-	-	
Nicotine	beta[6]	-	-	-	-	-	-	-	-	-	-	-	
Nortriptyline	beta[7]	-	-	-	-	-	-	-	-	-	-	-	
Placebo EC	beta[8]	-	-	-	-	-	-	-	-	-	-	-	
Placebo	beta[9]	-	-	-	-	-	-	-	-	-	-	-	
Varenicline	beta[10]	-	-	-	-	-	-	-	-	-	-	-	
Nicotine tapering	beta[11]	-	-	-	-	-	-	-	-	-	-	-	
Log Mean Odds SAE across trials	mubar	-	-	-	-	-	-	-	-	-	-4.51	-	
Mean SAE rate across trials		-	-	-	-	-	-	-	-	-	0.01	-	
Between studies SD	sdbt	0.40	0.41	0.39	0.44	0.40	0.41	0.38	0.39	0.39	0.37	0.39	
	deviance	676.6	674.1	788.5	608.6	783.5	807.9	793.2	809.4	790.7	793	770.4	
	pD	101	102	117	93	116	118	125	118	117	118	114	
	DIC	778	777	906	702	900	933	911	931	909	911	885	
	Discarded iterations	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	
	Pooling of iterations	3	3	3	3	3	3	3	3	3	3	3	
	Total iterations	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	
Component effects across models ran		CNMA (only type) (safety)	CNMA (type delivery) (safety)	CNMA (type del comb) (safety)	CNMA (excl high risk) (safety)	CNMA (excl DIC3) (safety)	CNMA (typ del dos) (safety)	CNMA (typ del taper) (safety)	CNMA (typ del timin) (safety)	CNMR (pre-exist dis) (safety)	CNMR (ctrl arm SAE rate)	CNMR (fund) (safety)	